



SINCE 1978

**L**atest technology **I**nternationalized products **C**ompleted service **O**verall reliability

領先的技術 · 優良的品牌 · 完整的服務 · 全程的信賴

利高機械  
**LICO MACHINERY**



利高機械工業股份有限公司  
LICO MACHINERY CO., LTD.



感謝各位多年來的支持與愛護！

利高機械公司自1978年成立，一直是以生產CNC電腦車床及CAM凸輪式自動車床為主，至今我們已多次獲得「台灣精品獎」以及國家級創新研發獎，而且我們的銷售亦遍佈世界五十餘國，廣受各界好評。

我們秉持「品質至上·永續經營」的理念，不斷的提昇技術及服務品質，提供最佳的售前加工方案及完善的售後服務，更可依客戶需求訂製完全加工之整廠設備，進而為客戶創造最佳利潤，利高的用心，絕對讓您滿意。

**Portrait**

LICO Machinery Co., Ltd., established in 1978 under the leadership of president Mr. Hank Lin, is well known for manufacturing turning machines ranging from industrial cam operated single spindle automatic lathes to technical CNC turning centers. These machines are designed for the metalworking sector and have been adapted by various industries such as aviation, vehicles, computers, plumbing fittings, optical instruments and others. Today, LICO lathes become popular across the world thanks to in-house staff and satellite-contractors working in harmony with the management board.



**ISO 9000**

HANK LIN  
PRESIDENT



利高機械 · 遍佈全球！  
LICO MACHINE , ACROSS THE WORLD!

# LNC D-SERIES

**CNC MULTI-ALIDE AUTOMATICS:**  
**LNC42D/ LNC65D/ LNC80D**

## LNC D-SERIES

### CNC MULTI-ALIDE AUTOMATICS: LNC42D / LNC65D / LNC80D

The Economic Way of Complete Machining, Turn & Mill

Power Tools Turret, Counter Spindle, X/Z Slide and Back Machining



- \* Best value, versatile machine available for all production shops.
- \* Main spindle with infinite indexing, C-axis FUNCTION.
- \* Several different arrangements to match your needs.
- \* Short or oil-film automatic bar feeder available as option.

**(-01)LNC42D-GANG** (M64ALS; S802D; F0i Mate)

Quick and easy for simple jobs subplate available as option.

**(-02)LNC42D-G-8ST** (M64ALS; S802D; F0i Mate)

With hydraulic live tools up to 3-sets, Both X or Z DIRECTION, Eccentric or cross drilling, Tapping and milling operations.

**(-11)LNC42D-8ST-BM** (S810D; M64SL)

**(-12)LNC42D-G-12LT** (S802D; M64SL)

**(-13)LNC42D-12LT-BM** (S840D; M65SL)

Up to 12-position with live tooling, Good for turn and mill combination jobs.

**(-21)LNC42D-8ST-BW-Z2X2** (S810D; M64SL; M70)

**(-22)LNC42D-12LT-BM-Z2X2** (S840D; M65SL; M70)

Of complete machining, X/Z slide for parting-off and simple turning units are available.



**Machining Samples**



High speed, high precision bi-direction indexing turret 8 or 12-position with thru coolant available. Indexing time is 0.35 seconds.

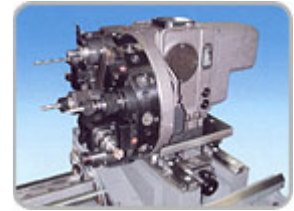
**LNC D-SERIES**

**CNC MULTI-AXIS AUTOMATICS: LNC42D / LNC65D / LNC80D**



Both X/Z slides are box way construction, Chips-free and steady for all kinds of material stock. Additional X/Z tool slide gained both benefits of parting-off and overlap back side turning.

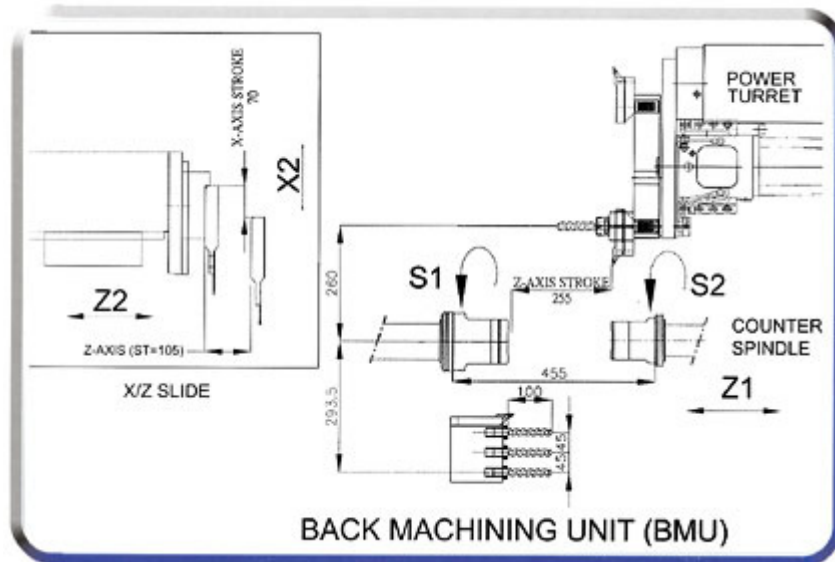
12-Station-Power-Turret ensures high repeated positioning accuracy and rigidity with a build-in cooling nozzle sprays coolant directly to tool tips.



**CNC controllers**

"MITSUBISHI" M64SL, SIEMENS 840D or FANUC 3i are available.

Counter spindle with 48-indexing collet chuck max, 36 mm, 4"-3J chuck as option.



**LNC D-SERIES**

**CNC MULTI-ALIDE AUTOMATICS: LNC42D / LNC65D / LNC80D**

**Technical Data:**

Model	LNC42D	LNC65D	LNC80D
Unit	Metric (Inch)		
<b>CAPACITIES</b>			
Collet bar capacity, dia.(through bore)	Ø42 (1.65")	Ø65 (2.56")	Ø80 (3.15")
Swing over bad	Ø260 (Ø10.2")		
Swing over alide	Ø150 (Ø5.9")		
Max. turning dia.(3-jaw power chuck)	Ø165 (Ø6.5")	Ø210(Ø8.3")	Ø304 (Ø12")
Max. turning length (Turret type)	collet 3-jaw power chuck	205(8")	
Max. turning length (Gang type)	collet 3-jaw power chuck	165(6.5")	155(6.1")
		280(11")	135(5.3")
	240(9.5")	230(9.1")	210(8.3")
<b>SPINDLE</b>			
Height of spindle center (approx.)	10300(40.55")		
Spindle nose	ISO A2-5	ISO A2-6	ISO A2-8
Collet chuck type	F48 (Ø42)	F72 (Ø65)	F90 (Ø80)
Power chuck reception	6"	8"	12"
Spindle/ draw bar through bore	Ø53 / Ø43	Ø78 / Ø66	Ø94 / Ø78
<b>SPINDLE DRIVE</b>			
Motor power cont. (Mitaubishi/Siemens)	7.5/10kw (10/13.4 HP)		
Max. spindle speed	5,000rpm	4,000rpm	3,000rpm
<b>SLIDE</b>			
Longitudinal slide travel(Z-axis)	300(11.8")		
Cross silide travel(X-axis)	350(13.9") for gang tgpe		
Resolution	0.001 (0.0001")		
<b>TOOL TURRET</b>			
Number of tool position	8 or 12 (Stationary)/ 12 (Power)		
Turning tool section	20mm SQ (3/4")		
Boring tool reception	Ø25(Ø1")		
tool drive	2.2 kW		
live tool max. speed	3,000 rpm		
Indexing	0.35 sec		
<b>SERVO MOTORS</b>			
Working feeds, X-axis and Z	0~10,000 mm/min (0~394 in./min)		
Rapid traverses, X-axis and Z	15 M/min (590 in./min)		
Feed force, X-axis and Z (Mitsubishi/Siemens)	5Nm (1.0 kW/ 1.4 kW)/ 3.68 lb-ft (1.334 HP/ 1.87 HP)		
<b>SPACE REQUIREMENTS AND WELGHTS</b>			
Overall dimension (LxWxH)	2,000 x 1,500 x 1,700 (78.7" x 59.1" x 66.9")(1800 Siemens)		
Approx. net weights of machine with electrical. cabinet(G.W.)	2,350 kg (5,170 lbs)	2,450 kg (5,390 lbs)	2,550 kg (5,610 lbs)
Machine weight	2,700 kg (5,940 lbs)	2,800 kg (6,160 lbs)	2,900 kg (6,380 lbs)
Packing size	7.5m <sup>3</sup> (24.6ft <sup>3</sup> )		
Hydraulic tank capacity	30L (0.79 gal.)		
Hydraulic tank capacity (Rotary tool)	40L (1.05 gal.)		
Hydraulic pump motor	0.75kw (1HP)		
Hydraulic pump motor (Rotary tool)	3.75kw (5HP)		
Coolant tank capacity	150 L (3.96 gal.)		
Coolant pump motor	0.375 kW (0.5 HP)		
Lubrication capacity	2L, 10cc/10min		
Total power required (Mitsubishi/Siemens)	11kVA		16kVA

**LNC D-SERIES**

**CNC MULTI-ALIDE AUTOMATICS: LNC42D / LNC65D / LNC80D**

**"MITSUBISHI" M64SL CNC controller with following functions as standard:**

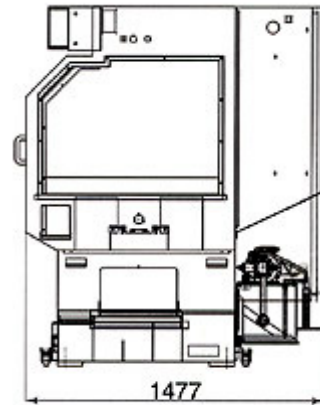
- \* Part program storage length 600M
- \* Graphic trace of tool path
- \* Multiple canned cycles
- \* Automatic chamfering & corner rounding
- \* Simultaneously controllable 2 axes
- \* Tool offset memory 80 sets
- \* Tool nose radius compensation
- \* Tool life management
- \* Constant surface speed control
- \* Oriented spindle stop

**Optional Accessories:**

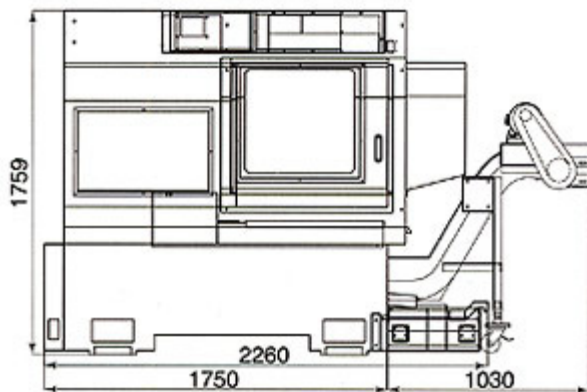
1. 6"; 8"; 12" hollow power chuck ( )LNC42D; LNC65D; LNC80D
2. Tool turret 8 or 12 stations
3. Power turret 12 stations
4. Counter spindle CS36(std.)/ Ø4"-3J(opt.)
5. Hydraulic live tool with hydraulic system
6. Additional X/Z tool slide
7. Back machining unit
8. Foot pedal for collet & chuck open/ close
9. Vertical polygonal milling attachment
10. Chip conveyor with cart
11. Automatic bar feeder

**Standard Equipment:**

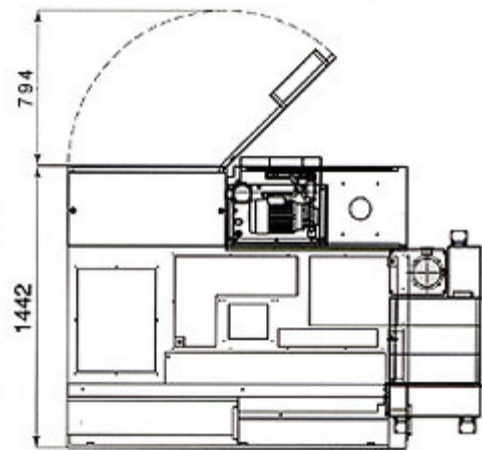
1. Spindle Collet Chuck System (Standard)
2. Main spindle with infinite indexing
3. Hydraulic system
4. Coolant and air jet system
5. Work lamp
6. Automatic lubrication system
7. Front door safety interlock
8. Parts catcher
9. Tool Box and ToolKits
10. Bar feeder interface
11. Control cabinet heat exchanger



Right View



Front View



Top View

## 公司沿革 Company Profile

- |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1978 利高機械工業股份有限公司正式在九月三日於桃園成立。                                            | 1978 LICO machinery co. was founded on Sep. 3, in Taoyuan by Hank Lin, Ray Cheng, Vic Lin, Knoll Chiu and other partners.                                                                                                                                                                                                                                                                      |
| 1981 首次外銷單軸自動車床至美國及日本。                                                    | 1981 LICO first exported single spindle automatic lathe to America and Japan.                                                                                                                                                                                                                                                                                                                  |
| 1984 利高機械首次參加馬來西亞機械展，積極拓展東南亞業務市場。                                         | 1984 LICO attended Mex 1984 machine show at Kuala Lumpur, Malaysia, and set-up a sales net in the South-East Asian market.                                                                                                                                                                                                                                                                     |
| 1990 成立利根機械於潭子加工區。<br>成立美國利寶高公司，除銷售原有設備外，並銷售汽車零件以服務美國市場。<br>研發CNC多滑軌自動車床。 | 1990 LICO invested and set-up a new company in the Tai-Chung Export Processing Zone (Taiwan)--Likon Machinery Co., Ltd. LICO invested and set-up a new company with LIPO in Texas, U.S.A. --Lipoco Enterprises Inc. to produce automobile parts and sales for the American market.<br>LICO started to develop CNC machines, the first project was the "CNC Multi-Slide Automatic Bar Machine". |
| 1993 LNT-42 CNC 多滑座自動車床，榮獲第一屆「台灣精品獎」，並取得台灣、大陸、德國等專利。                      | 1993 LICO developed multi-slide LNT-42 CNC Lathe and got the prize of "It's Very Well Made In Taiwan" No.1. Got the patent from Taiwan, Mainland China and Germany.                                                                                                                                                                                                                            |
| 1994 利高公司發展LA32H自動車床榮獲第二屆「台灣精品獎」。                                         | 1994 LICO developed LA32H Cam Automatic Lathe and got the prize of "It's Very Well Made In Taiwan" No.2.                                                                                                                                                                                                                                                                                       |
| 1996 利高公司取得ISO-9000國際品保認證。                                                | 1996 LICO was passed the international quality assurance licence of ISO- 9000.                                                                                                                                                                                                                                                                                                                 |
| 1999 利高公司發展複合加工多功能CNC車床，榮獲第八屆「台灣精品獎」。                                     | 1999 LICO Developed functional complex CNC lathe and got the prize of "It's Very Well Made In Taiwan" No.8.                                                                                                                                                                                                                                                                                    |
| 2001 利高公司經英國Amtriveritas取得CE認證，編號9002。                                    | 2001 The CE Mark approved by Amtriveritas in the UK.                                                                                                                                                                                                                                                                                                                                           |
| 2002 LNE42複合加工CNC車銑加工機，榮獲第九屆國家級創新研發獎。                                     | 2002 LNE42 awarded the prize of "Innovative Research Award of SMEs" hosted by Taiwan Ministry of Economic Bureau.                                                                                                                                                                                                                                                                              |
| 2004 利高開發LNT鍛胚自動送料，完全加工機。                                                 | 2004 LICO developed LNT forged blank with automatic loading complete machining machine.                                                                                                                                                                                                                                                                                                        |
| 2005 利高開發LNC-D自動棒材送料，有十二位複合加工及副主軸背面加工之CNC自動車床。                            | 2005 LICO developed LNC-D automatic bar feeding with 12-position live tools and sub-spindle back machining CNC automatics.                                                                                                                                                                                                                                                                     |
| 2006 利高開發CNA36P小型低成本之主軸移動式CNC車床，適用於長軸加工、不銹鋼球閥心軸銜Y銼、手工具之多邊車削成形。            | 2006 LICO developed compact, affordable head stock sliding CNC automatic lathe for long shaft machining, stainless steel ball valve stem with Y-mill and hand tools with polygonal turning.                                                                                                                                                                                                    |



### 利高機械工業股份有限公司 LICO MACHINERY CO., LTD.

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